Module Assessment, Part 1

Circle the letter of the choice that correctly completes the sentence.

1. A(n) _________________ is the path through which electrons flow.
   A. current           C. conductor
   B. circuit           D. insulator

2. A light bulb filament changes electrical energy to heat and light because it has a high _________________.
   A. electromagnetism  C. resistance
   B. attraction        D. repulsion

3. A(n) _________________ is a device that converts electricity into motion.
   A. motor            C. electromagnet
   B. generator        D. solar cell

4. An _________________ is made by passing a current through a piece of wire wrapped around an iron core.
   A. generator        C. solar cell
   B. electromagnet    D. microamp

Answer the question.

5. What is the difference between a conductor and an insulator? Give some examples of each.

_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
Module Assessment, Part 2

Look at the pictures below. Each shows the charges on a pair of balloons. Label each picture to tell if the balloons will attract or repel each other.

6
7
8

9 Look at the picture below. It shows a D-cell battery. Label the parts of the battery using the words in the box.

- carbon rod
- zinc case
- electrolyte

What parts of the battery make up the positive and negative terminals?

10 positive terminal ________________
11 negative terminal ________________
Module Assessment, Part 3

Materials:
1 battery
1 battery holder
2 bulb holders
2 bulbs
4 wires

Use the materials to make a parallel circuit that lights the bulbs. Draw what you put together.

How is a parallel circuit different from a series circuit?